Analytical and Quality Control Report

Report Date: May 27, 2008

Work Order: 8033103

William Little WTS Building 126 3RD Floor P.O. Box 363 WSMR, NM, 88002

, 88002

HELSTF GROUNDWATER

Project Number: 65

Project Name:

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

	•	-	Date	Time	Date
\mathbf{Sample}	Description	Matrix	Taken	Taken	Received
155080	HLSF-0085-HMW-010-0308	water	2008-03-27	13:42	2008-03-27
155082	HLSF-0085-HMW-014-0308	water	2008-03-27	10:45	2008-03-27
155408	HLSF-0085-HMW-054-0308	water	2008-03-31	14:05	2008-03-31
155410	HLSF-0085-HMW-055-0308	water	2008-03-31	12:18	2008-04-02
155638	HLSF-0085-D RW-008-0408	water	2008-04-01	13:50	2008-04-01
155749	HLSF-0085-D RW-017-0408	water	2008-04-02	10:12	2008-04-02
155751	HLSF-0085-D RW-016-0408	water	2008-04-02	13:04	2008-04-02
155888	HLSF-0085-HMW-058-0408	water	2008-04-04	10:45	2008-04-04
155890	HLSF-0085-HMW-063-0408	water	2008-04-04	13:15	2008-04-04
155892	HLSF-0085-HMW-043-0408	water	2008-04-03	13.55	2008-04-03
155894	HLSF-0085-HMW-062-0408	water	2008-04-03	12:20	2008-04-04
156084	HLSF-0085-HMW-053-0408	water	2008-04-07	13:48	2008-04-07
156559	HLSF-0085-HMW-060-0408	water	2008-04-09	15:00	2008-04-09
156689	HLSF-0085-HMW-057-0408	water	2008-04-10	10:45	2008-04-10
156691	HLSF-0085-HMW-059-0408	water	2008-04-10	13:00	2008-04-10
156916	HLSF-0085-HMW-033-0408	water	2008-04-14	14:25	2008-04-14
157035	HLSF-0085-HMW-034-0408	water	2008-04-15	14:05	2008-04-15
157205	HLSF-0085-HMW-008-0408	water	2008-04-16	09:32	2008-04-16
157484	HLSF-0085-HMW-061-0408	water	2008 - 04 - 17	14:35	2008-04-17
157486	HLSF-0085-D RW-114-0408	water	2008-04-18	11:45	2008-04-18
157507	HLSF-0085-D-RW-014-0408	water	2008-04-18	11:45	2008-04-18
157621	HLSF-0085-D RW-002-0408	water	2008-04-21	12:27	2008-04-21
157765	HLSF-0085-HCF-003-0408	water	2008-04-22	11:25	2008-04-22
157767	HLSF-0085-HCF-103-0408	water	2008-04-22	11:25	2008-04-22

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch

basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

> Michael abel Dr. Blair Leftwich, Director

Certifications

Lubbock - NELAP T104704219-08-TX El Paso - NELAP T104704221-08-TX

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project HELSTF GROUNDWATER, HELSTF GROUND-WATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWA-TER, HELSTF GROUNDWATER, HELSTF STF GROUNDWATER, HELSTF GROUNDWATER, HELSTF GROUNDWATER and HELSTF GROUNDWATER were received by TraceAnalysis, Inc. on 2008-03-27, 2008-03-27, 2008-03-31, 2008-04-02, 2008-04-01, 2008-04-02, 2008-04-02, 2008-04-04, 2008-04-04, 2008-04-03, 2008-04-04, 2008-04-07, 2008-04-09, 2008-04-10, 2008-04-10, 2008-04-14, 2008-04-15, 2008-04-16, 2008-04-17, 2008-04-18, 2008-04-18, 2008-04-21, 2008-04-22 and 2008-04-22 and assigned to work orders 8033103, $8033104,\ 8040204,\ 8040205,\ 8040329,\ 8040416,\ 8040417,\ 8040707,\ 8040708,\ 8040709,\ 8040710,\ 8040909,\ 8041118,\ 8041409,$ 8041410, 8041616, 8041710, 8041822, 8042122, 8042123, 8042129, 8042308, 8042422 and 8042423 respectively. Samples for work order 8033103 were received intact at a temperature of 4.0 deg C.Samples for work order 8033104 were received intact at a temperature of 4.0 deg C.Samples for work order 8040204 were received intact at a temperature of 4.0 dec C.Samples for work order 8040205 were received intact at a temperature of 4.0 dec C.Samples for work order 8040329 were received intact at a temperature of 4.0 dec C.Samples for work order 8040416 were received intact at a temperature of 4.0 deg C.Samples for work order 8040417 were received intact at a temperature of 4 deg C.Samples for work order 8040707 were received intact at a temperature of 4 deg C.Samples for work order 8040708 were received intact at a temperature of 4.0 dec C.Samples for work order 8040709 were received intact at a temperature of 4 deg C.Samples for work order 8040710 were received intact at a temperature of 4.0 deg C.Samples for work order 8040909 were received intact at a temperature of 4.0 dec C.Samples for work order 8041118 were received intact at a temperature of 4 deg C.Samples for work order 8041409 were received intact at a temperature of 4 deg C.Samples for work order 8041410 were received intact at a temperature of 4.0 deg C.Samples for work order 8041616 were received intact at a temperature of 4 deg C.Samples for work order 8041710 were received intact at a temperature of 4.0 deg C.Samples for work order 8041822 were received intact at a temperature of 4.0 deg C.Samples for work order 8042122 were received intact without headspace and at a temperature of 4.0 deg C.Samples for work order 8042123 were received intact without headspace and at a temperature of 4 deg C.Samples for work order 8042129 were received intact at a temperature of 4.0 deg C.Samples for work order 8042308 were received intact without headspace and at a temperature of 4 deg C.Samples for work order 8042422 were received intact at a temperature of 4.0 deg C.Samples for work order 8042423 were received intact at a temperature of 4.0 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
TPH DRO	Mod. 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work orders 8033103, 8033104, 8040204, 8040205, 8040329, 8040416, 8040417, 8040707, 8040708, 8040709, 8040710, 8040909, 8041118, 8041409, 8041410, 8041616, 8041710, 8041822, 8042122, 8042123, 8042129, 8042308, 8042422 and 8042423 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Report Date: May 27, 2008 Work Order: 8033103 Page Number: 4 of 24 65 HELSTF GROUNDWATER

Analytical Report

Sample: 155080 - HLSF-0085-HMW-010-0308

Laboratory: Lubbock

Analytical Method: Analysis: TPH DRO Mod. 8015B Prep Method: N/A QC Batch: 46977 Date Analyzed: 2008 - 03 - 31Analyzed By: RMPrep Batch: 40407 Sample Preparation: 2008-03-31 Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		11.4	$\mathrm{mg/L}$	1	10.0	114	67.2 - 149

Sample: 155082 - HLSF-0085-HMW-014-0308

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/AQC Batch: 46977 Date Analyzed: 2008-03-31 Analyzed By: RMPrep Batch: Sample Preparation: 40407 2008-03-31 Prepared By: RM

					Spike	Percent	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		9.04	mg/L	1	10.0	90	67.2 - 149

Sample: 155408 - HLSF-0085-HMW-054-0308

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: N/AMod. 8015BQC Batch: 47203 Date Analyzed: 2008-04-07 Analyzed By: RMPrep Batch: 40592 Sample Preparation: 2008-04-07 Prepared By: RM

Work Order: 8033103 HELSTF GROUNDWATER

					Spike	Percent	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		11.5	$\mathrm{mg/L}$	1	10.0	115	67.2 - 149

Sample: 155410 - HLSF-0085-HMW-055-0308

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47203Prep Batch: 40592

Analytical Method: Mod. 8015B Date Analyzed: 2008-04-07 Sample Preparation: 2008-04-07

RLParameter Units Dilution RLFlag Result $\overline{\mathrm{DRO}}$ < 5.00mg/L5.00 Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits

mg/L

Sample: 155638 - HLSF-0085-D RW-008-0408

Flag

11.2

Laboratory: Lubbock

n-Triacontane

Parameter

DRO

Analysis: TPH DRO QC Batch: 47203 Prep Batch: 40592

Analytical Method: Mod. 8015B Date Analyzed: 2008-04-07 Sample Preparation: 2008-04-07

Prepared By: RLResult Units Dilution RL< 5.00mg/L5.00

10.0

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Prep Method: N/A

RM

RM

67.2 - 149

N/A

RM

RM

Analyzed By:

Prepared By:

Prep Method:

Prep Method: N/A

Analyzed By:

112

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		13.5	m mg/L	1	10.0	135	67.2 - 149

Sample: 155749 - HLSF-0085-D RW-017-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B QC Batch: 47203Date Analyzed: 2008-04-07 Prep Batch: 40592Sample Preparation: 2008-04-07

Analyzed By: RMPrepared By: RMВT

		пп			
Parameter	Flag	Result	Units	Dilution	RL
DRO		< 5.00	m mg/L	1	5.00

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					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane	1	18.3	$\mathrm{mg/L}$	1	10.0	183	67.2 - 149

Sample: 155751 - HLSF-0085-D RW-016-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47203 Prep Batch: 40592 Analytical Method: Mod. 8015B Date Analyzed: 2008-04-07 Sample Preparation: 2008-04-07

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

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RL Parameter Flag Result

					Spike	Percent	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane	2	158	${ m mg/L}$	1	10.0	1580	67.2 - 149

Sample: 155888 - HLSF-0085-HMW-058-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47203 Prep Batch: 40592 Analytical Method: Mod. 8015B
Date Analyzed: 2008-04-07
Sample Preparation: 2008-04-07

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

					Spike	$\operatorname{Percent}$	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane		13.2	$\mathrm{mg/L}$	1	10.0	132	67.2 - 149

Sample: 155890 - HLSF-0085-HMW-063-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47203 Prep Batch: 40592 Analytical Method: Mod. 8015B
Date Analyzed: 2008-04-07
Sample Preparation: 2008-04-07

Prep Method: N/A Analyzed By: RM Prepared By: RM

¹ High surrogate recovery. Sample non-detect, result bias high.

² High surrogate recovery. Sample non-detect, result bias high.

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					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	$\overline{ m Amount}$	Recovery	Limits
n-Triacontane		12.0	mg/L	1	10.0	120	67 2 - 149

Sample: 155892 - HLSF-0085-HMW-043-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 47203Date Analyzed: 2008-04-07 Analyzed By: RMPrep Batch: 40592Sample Preparation: 2008-04-07 Prepared By: RM

					Spike	$\operatorname{Percent}$	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane		10.5	m mg/L	1	10.0	105	67.2 - 149

Sample: 155894 - HLSF-0085-HMW-062-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: Mod. 8015B N/AQC Batch: 47203 Date Analyzed: 2008-04-07 Analyzed By: RMPrep Batch: Sample Preparation: 40592 2008-04-07 Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		12.1	$\mathrm{mg/L}$	1	10.0	121	67.2 - 149

Sample: 156084 - HLSF-0085-HMW-053-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: N/A Mod. 8015B QC Batch: 47314 Date Analyzed: 2008-04-09 Analyzed By: RMPrep Batch: 40691 Sample Preparation: 2008-04-09 Prepared By: RM

Work Order: 8033103 HELSTF GROUNDWATER

					Spike	Percent	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		10.5	$\mathrm{mg/L}$	1	10.0	105	67.2 - 149

Sample: 156559 - HLSF-0085-HMW-060-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47380 Prep Batch: 40737 Analytical Method: Mod. 8015B Date Analyzed: 2008-04-11 Sample Preparation: 2008-04-11

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

RL

5.00

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					Spike	$\operatorname{Percent}$	Recovery
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		11.7	m mg/L	1	10.0	117	67.2 - 149

Sample: 156689 - HLSF-0085-HMW-057-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47460 Prep Batch: 40807 Analytical Method: Mod. 8015B
Date Analyzed: 2008-04-14
Sample Preparation: 2008-04-04

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		12.1	m mg/L	1	10.0	121	67.2 - 149

Sample: 156691 - HLSF-0085-HMW-059-0408

Laboratory: Lubbock

Analysis: TPH DRO Analy QC Batch: 47460 Date Prep Batch: 40807 Samp

Analytical Method: Mod. 8015B
Date Analyzed: 2008-04-14
Sample Preparation: 2008-04-04

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

Surrogate	Flag	Result	Units	$\operatorname{Dilution}$	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Percent Recovery	$egin{array}{c} ext{Recovery} \ ext{Limits} \end{array}$
n-Triacontane		10.5	mg/L	1	10.0	105	67.2 - 149

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Sample: 156916 - HLSF-0085-HMW-033-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A QC Batch: 47606Date Analyzed: 2008-04-18 Analyzed By: TGPrep Batch: Sample Preparation: TG40933 2008-04-18 Prepared By:

RLParameter Units Dilution RLFlag Result $\overline{\mathrm{DRO}}$ < 5.00 mg/L5.00

					Spike	$\operatorname{Percent}$	Recovery
Surrogate	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane	3	16.4	m mg/L	1	10.0	164	57.2 - 149

Sample: 157035 - HLSF-0085-HMW-034-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/AQC Batch: 47606 Date Analyzed: 2008-04-18 Analyzed By: TGPrep Batch: Sample Preparation: TG40933 2008-04-18 Prepared By:

RLFlag Parameter Result Units Dilution RLDRO < 5.00mg/L5.00

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	$\operatorname{Dilution}$	${ m Amount}$	Recovery	Limits
n-Triacontane		11.4	$_{ m mg/L}$	1	10.0	114	57.2 - 149

Sample: 157205 - HLSF-0085-HMW-008-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: Mod. 8015B N/AQC Batch: 47606Date Analyzed: 2008-04-18 Analyzed By: TGPrep Batch: 40933 Sample Preparation: 2008-04-18 Prepared By: TG

RLFlag Parameter Result Units Dilution RLDRO < 5.00mg/L5.00

³ High surrogate recovery. Sample non-detect, result bias high.

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					$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane		10.1	$\mathrm{mg/L}$	1	10.0	101	57.2 - 149

Sample: 157484 - HLSF-0085-HMW-061-0408

Laboratory: Lubbock

Analytical Method: Analysis: TPH DRO Mod. 8015B Prep Method: N/A QC Batch: 47668Date Analyzed: 2008-04-21 Analyzed By: RMPrep Batch: 40986Sample Preparation: 2008-04-21 Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${f Amount}$	Recovery	Limits
n-Triacontane		11.7	${ m mg/L}$	1	10.0	117	57.2 - 149

Sample: 157486 - HLSF-0085-D RW-114-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/AQC Batch: 47668 Date Analyzed: 2008-04-21 Analyzed By: RMPrep Batch: Sample Preparation: 40986 2008-04-21 Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		11.4	$\mathrm{mg/L}$	1	10.0	114	57.2 - 149

Sample: 157507 - HLSF-0085-D-RW-014-0408

Laboratory: Lubbock

Analysis: TPH DRO Analytical Method: Prep Method: N/A Mod. 8015B QC Batch: 47668Date Analyzed: 2008-04-21 Analyzed By: RMPrep Batch: 40986 Sample Preparation: 2008-04-21 Prepared By: RM

Work Order: 8033103 HELSTF GROUNDWATER

					$_{ m Spike}$	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		14.0	$\mathrm{mg/L}$	1	10.0	140	57.2 - 149

Sample: 157621 - HLSF-0085-D RW-002-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47790 Prep Batch: 41088 Analytical Method: Mod. 8015B Date Analyzed: 2008-04-24 Sample Preparation: 2008-04-24

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

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 $\begin{array}{ccc} & & & RL \\ Parameter & Flag & Result \end{array}$

					Spike	Percent	Recovery
$\operatorname{Surrogate}$	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane		14.2	${ m mg/L}$	1	10.0	142	57.2 - 149

Sample: 157765 - HLSF-0085-HCF-003-0408

Laboratory: Lubbock

Analysis: TPH DRO QC Batch: 47790 Prep Batch: 41088 Analytical Method: Mod. 8015B
Date Analyzed: 2008-04-24
Sample Preparation: 2008-04-24

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

					Spike	$\operatorname{Percent}$	$\operatorname{Recovery}$
$\mathbf{Surrogate}$	Flag	Result	Units	Dilution	${ m Amount}$	Recovery	Limits
n-Triacontane		10.5	$\mathrm{mg/L}$	1	10.0	105	57.2 - 149

Sample: 157767 - HLSF-0085-HCF-103-0408

Laboratory: Lubbock

Analysis:TPH DROAnalytical Method:Mod. 8015BQC Batch:47790Date Analyzed:2008-04-24Prep Batch:41088Sample Preparation:2008-04-24

Prep Method: N/A
Analyzed By: RM
Prepared By: RM

Surrogate

 $\overline{\text{n-Triacontane}}$

Flag

Result

12.8

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Recovery

Limits

71.8 - 139

Surrogate	Flag	Result	Units	Dilution	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	$ m Percent \ Recovery$	$egin{array}{c} ext{Recovery} \ ext{Limits} \end{array}$
n-Triacontane	-	12.3	$\mathrm{mg/L}$	1	10.0	123	57.2 - 149
Method Blank (1) OC	Batch: 46977					
QC Batch: 46977 Date Analyzed: 2008-03-31 Prep Batch: 40407 QC Preparation: 2008-03-31 MDL						zed By: RM red By: RM	
Parameter		Flag]	MDL Result		Units	RI
DRO				<1.09		mg/L	5
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	6	9.88	mg/L	1	10.0	99	71.8 - 139
QC Batch: 47203 Prep Batch: 40592			Date Analyzed: QC Preparation				zed By: RM red By: RM
Parameter							
DDO		Flag]	MDL Result		Units	RI
DRO		Flag				Units mg/L	RI 5
Surrogate	Flag	Flag Result	Units	Result			
	Flag			Result <1.09	Spike	mg/L Percent	5 Recovery
Surrogate		Result	Units	Result <1.09 Dilution	Spike Amount	mg/L Percent Recovery	5 Recovery Limits
Surrogate n-Triacontane) QC	Result 12.7	Units	Result <1.09 Dilution 1 2008-04-09	Spike Amount	mg/L Percent Recovery 127 Analys	5 Recovery Limits
Surrogate n-Triacontane Method Blank (1) QC Batch: 47314) QC	Result 12.7	Units mg/L Date Analyzed: QC Preparation	Result <1.09 Dilution 1 2008-04-09	Spike Amount 10.0	mg/L Percent Recovery 127 Analys	Recovery Limits 71.8 - 139

 ${\bf Units}$

mg/L

 ${\rm Dilution}$

Spike

Amount

10.0

Percent

Recovery

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Page Number: 13 of 24 HELSTF GROUNDWATER Method Blank (1) QC Batch: 47380 QC Batch: 47380 Date Analyzed: 2008-04-11 Analyzed By: RM Prep Batch: QC Preparation: 2008-04-11 Prepared By: 40737 RM

MDLFlag Parameter Result Units RL $\overline{\mathrm{DRO}}$ <1.09 mg/L

Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits 12.1 10.0 71.8 - 139 n-Triacontane mg/L121

Method Blank (1) QC Batch: 47460

QC Batch: 47460 Date Analyzed: 2008-04-14 Analyzed By: RM QC Preparation: 2008-04-14 Prep Batch: 40807 Prepared By: RM

MDLParameter Flag Result Units RL $\overline{\mathrm{DRO}}$ <1.09 mg/L5

Spike Percent Recovery Surrogate Flag Units Dilution Amount Recovery Limits Result n-Triacontane 10.2 mg/L1 10.0 102 71.8 - 139

Method Blank (1) QC Batch: 47606

QC Batch: 47606 Date Analyzed: 2008-04-18 Analyzed By: TGPrep Batch: QC Preparation: 2008-04-18 40933 Prepared By: TG

MDLParameter Flag Result Units RLDRO <1.09 mg/L 5

Spike Percent Recovery Surrogate Flag Result Units Dilution Amount Recovery Limits n-Triacontane 11.1 mg/L10.0 111 57.2 - 149 1

Method Blank (1) QC Batch: 47668

QC Batch: 47668 Date Analyzed: 2008-04-21 Analyzed By: RM Prep Batch: 40986 QC Preparation: 2008-04-21 Prepared By: RM

Work Order: 8033103 HELSTF GROUNDWATER

65

				MDL			
Parameter		Flag		Result		Units	RL
DRO			<1.09	1	5		
					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	Dilution	$\overline{ m Amount}$	Recovery	Limits
n-Triacontane		14.8	$_{ m mg/L}$	1	10.0	148	57.2 - 149

Method Blank (1) QC Batch: 47790

QC Batch: 47790 Prep Batch: 41088

 $\overline{\mathrm{DRO}}$

Date Analyzed: 2008-04-24 QC Preparation: 2008-04-24 Analyzed By: RM Prepared By: RM

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 $\begin{array}{ccc} & & & & MDL \\ Parameter & & Flag & Result \end{array}$

 $\begin{array}{c|c} \text{Units} & \text{RL} \\ \hline \text{mg/L} & 5 \\ \end{array}$

					Spike	Percent	Recovery
Surrogate	Flag	Result	Units	$\operatorname{Dilution}$	${f Amount}$	Recovery	Limits
n-Triacontane		13.0	$_{ m mg/L}$	1	10.0	130	57.2 - 149

<1.09

Laboratory Control Spike (LCS-1)

QC Batch: 46977 Prep Batch: 40407 Date Analyzed: 2008-03-31 QC Preparation: 2008-03-31

Analyzed By: RM Prepared By: RM

	LCS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	$\mathrm{Dil}.$	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
DRO	24.9	mg/L	1	25.0	<1.09	100	66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	24.4	$_{ m mg/L}$	1	25.0	< 1.09	98	66.3 - 135	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
$\mathbf{Surrogate}$	Result	Result	Units	Dil.	${f Amount}$	Rec .	$\mathrm{Rec}.$	Limit
n-Triacontane	10.4	9.62	$_{ m mg/L}$	1	10.0	104	96	55.6 - 137

Laboratory Control Spike (LCS-1)

QC Batch: 47203 Date Analyzed: 2008-04-07 Analyzed By: RM Prep Batch: 40592 QC Preparation: 2008-04-07 Prepared By: RM

(65				

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
DRO	30.2	m mg/L	1	25.0	< 1.09	121	66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	$\mathrm{Rec}.$	Limit	RPD	Limit
DRO	27.7	$_{ m mg/L}$	1	25.0	<1.09	111	66.3 - 135	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	$_{ m LCS}$	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${ m Amount}$	Rec.	${ m Rec.}$	Limit
n-Triacontane	13.7	12.4	mg/L		10.0	137	124	55.6 - 137

Laboratory Control Spike (LCS-1)

QC Batch: 47314

40691

Date Analyzed: 2008-04-09 Analyzed By: RM Prepared By: RM

66.3 - 135

Page Number: 15 of 24

Prep Batch:

Param

DRO

QC Preparation: 2008-04-09

Units

mg/L

Spike

Amount

25.0

<1.09

Matrix Rec. Result Limit Rec.

82

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

LCS

Result

20.5

	LCSD			$_{ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	24.4	mg/L	1	25.0	< 1.09	98	66.3 - 135	17	20

Dil.

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	$_{ m LCS}$	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${f Amount}$	Rec .	$\mathrm{Rec.}$	Limit
n-Triacontane	9.00	11.2	$_{ m mg/L}$	1	10.0	90	112	55.6 - 137

Laboratory Control Spike (LCS-1)

QC Batch: 47380 Prep Batch: 40737 Date Analyzed: 2008-04-11 QC Preparation: 2008-04-11

Analyzed By: RM Prepared By: RM

	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
DRO	25.6	$\mathrm{mg/L}$	1	25.0	<1.09	102	66.3 - 135

65

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	27.3	$\mathrm{mg/L}$	1	25.0	<1.09	109	66.3 - 135	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${ m Amount}$	Rec.	$\mathrm{Rec.}$	Limit
n-Triacontane	11.5	12.2	mg/L	1	10.0	115	122	55.6 - 137

Laboratory Control Spike (LCS-1)

QC Batch: 47460 Prep Batch: 40807 Date Analyzed: 2008-04-14 QC Preparation: 2008-04-14 Analyzed By: RM Prepared By: RM

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	LCS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit
DRO	28.8	m mg/L	1	25.0	<1.09	115	66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	28.6	$_{ m mg/L}$	1	25.0	< 1.09	114	66.3 - 135	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCS	LCSD			Spike	LCS	LCSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${ m Amount}$	$\mathrm{Rec}.$	$\mathrm{Rec.}$	Limit
n-Triacontane	12.3	12.8	$_{ m mg/L}$	1	10.0	123	128	55.6 - 137

Laboratory Control Spike (LCS-1)

QC Batch: 47606 Prep Batch: 40933 Date Analyzed: 2008-04-18 QC Preparation: 2008-04-18

Analyzed By: TG Prepared By: TG

	LCS			Spike	Matrix		Rec .
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
DRO	21.6	m mg/L	1	25.0	< 1.09	86	66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	25.1	$\mathrm{mg/L}$	1	25.0	<1.09	100	66.3 - 135	15	20

Work Order: 8033103 HELSTF GROUNDWATER Page Number: 17 of 24

Analyzed By: RM

Prepared By: RM

Analyzed By: RM

Prepared By: RM

	LCS	LCSD			Spike	LCS	LCSD	${ m Rec.}$
Surrogate	Result	Result	Units	Dil.	${ m Amount}$	Rec.	${ m Rec.}$	Limit
n-Triacontane	11.5	14.3	m mg/L	1	10.0	115	143	57.2 - 149

Laboratory Control Spike (LCS-1)

 QC Batch:
 47668
 Date Analyzed:
 2008-04-21

 Prep Batch:
 40986
 QC Preparation:
 2008-04-21

LCS Spike Matrix Rec. Param Result Units Dil. Amount Result Rec. Limit DRO 24.1 mg/L25.0 < 1.09 96 66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	27.7	mg/L	1	25.0	< 1.09	111	66.3 - 135	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	$_{ m LCS}$	LCSD			Spike	LCS	$_{ m LCSD}$	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${f Amount}$	Rec .	$\mathrm{Rec.}$	Limit
n-Triacontane	11.7	14.9	$\mathrm{mg/L}$	1	10.0	117	149	57.2 - 149

Laboratory Control Spike (LCS-1)

 QC Batch:
 47790
 Date Analyzed:
 2008-04-24

 Prep Batch:
 41088
 QC Preparation:
 2008-04-24

	LCS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
DRO	27.7	$_{ m mg/L}$	1	25.0	< 1.09	111	66.3 - 135

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			Spike	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	25.6	mg/L	1	25.0	<1.09	102	66.3 - 135	8	20

	LCS	$_{ m LCSD}$			Spike	LCS	$_{ m LCSD}$	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	$\overline{\mathrm{Amount}}$	Rec.	$\mathrm{Rec.}$	Limit
n-Triacontane	13.0	12.0	$_{ m mg/L}$	1	10.0	130	120	57.2 - 149

Work Order: 8033103 HELSTF GROUNDWATER

Matrix Spike (MS-1) Spiked Sample: 155082

QC Batch: 46977 Prep Batch: 40407 Date Analyzed: 2008-03-31 QC Preparation: 2008-03-31

Analyzed By: RM Prepared By: RM

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	MS			Spike	Matrix		${ m Rec.}$
Param	Result	Units	Dil .	${f Amount}$	Result	Rec .	Limit
DRO	20.6	mg/L	1	25.0	<1.09	82	73 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit	RPD	Limit
DRO	21.6	mg/L	1	25.0	< 1.09	86	73 - 119	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	$\mathrm{Rec}.$
$\mathbf{Surrogate}$	Result	Result	Units	Dil.	${f Amount}$	$\mathrm{Rec.}$	$\mathrm{Rec}.$	Limit
n-Triacontane	9.80	9.51	m mg/L	1	10	98	95	67.2 - 146

Matrix Spike (MS-1) Spiked Sample: 155410

 QC Batch:
 47203
 Date Analyzed:
 2008-04-07

 Prep Batch:
 40592
 QC Preparation:
 2008-04-07

Analyzed By: RM Prepared By: RM

	MS			Spike	Matrix		$\mathrm{Rec.}$
Param	Result	Units	Dil.	${f Amount}$	Result	Rec.	Limit
DRO	26.4	$\mathrm{mg/L}$	1	25.0	<1.09	106	73 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec .	Limit	RPD	Limit
DRO	27.9	mg/L	1	25.0	<1.09	112	73 - 119	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${f Amount}$	$\mathrm{Rec.}$	Rec .	Limit
n-Triacontane	10.7	11.8	m mg/L	1	10	107	118	67.2 - 146

Matrix Spike (MS-1) Spiked Sample: 156084

QC Batch: 47314 Date Analyzed: 2008-04-09 Analyzed By: RM Prep Batch: 40691 QC Preparation: 2008-04-09 Prepared By: RM

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Analyzed By: RM

Prepared By: RM

 ${\rm Rec.}$

98

Rec.

Limit 73 - 119

report	Date.	may	۷١,
65			

QC Batch:

Param

DRO

Prep Batch:

47460

40807

		MS				Spike	Mat			Rec .
Param		Resu		Units	Dil.	Amount	Res			Limit
DRO		19.6	<u> </u>	mg/L	1	25.0	<1.	09 78	3	73 - 119
Percent recovery is based	on the spi	ke result. I	RPD is	s based or	n the spike a	and spike du	iplicate re	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	$\mathrm{Rec}.$	Limit	RPD	Limit
DRO		21.7	mg/L	. 1	25.0	<1.09	87	73 - 119	10	20
Percent recovery is based	on the spi	ke result. I	RPD is	based or	n the spike a	and spike du	plicate re	esult.		
	MS	MSD				Spike	MS	MSD		Rec.
$\mathbf{Surrogate}$	Result	Result	i	Units	Dil.	${ m Amount}$	Rec.	Rec .		Limit
n-Triacontane	9.26	10.5		mg/L	1	10	93	105	6	67.2 - 146
QC Batch: 47380 Prep Batch: 40737				analyzed: eparation	2008-04- 2008-04-				yzed E ared B	•
		MS				Spike	Mat	rix		$\mathrm{Rec}.$
Param		Resu		Units	Dil.	${ m Amount}$	Res			Limit
DRO		21.2	2	$\mathrm{mg/L}$	1	25.0	<1.	09 85	Ó	73 - 119
Percent recovery is based	on the spi	ke result. I	RPD is	s based or	n the spike a	and spike du	iplicate re	${ m esult.}$		
		MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		21.8	mg/L	. 1	25.0	<1.09	87	73 - 119	3	20
Percent recovery is based	on the spi	ke result. I	RPD is	s based or	n the spike a	and spike du	iplicate re	esult.		
	MS	MSD				Spike	MS	MSD		Rec.
Surrogate	Result	Result		Units	Dil.	${ m Amount}$	Rec.	Rec .		Limit
n-Triacontane	10.2	10.6		mg/L	1	10	102	106		57.2 - 146
Matrix Spike (MS-1)	Spiked :	Sample: 156	6691							

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

MS

 ${\bf Result}$

24.6

Date Analyzed:

QC Preparation: 2008-04-14

 Units

mg/L

2008-04-14

 $\operatorname{Dil}.$

Spike

Amount

25.0

Matrix

Result

<1.09

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Analyzed By: TG

Prepared By: TG

	_								
	MSD			${ m Spike}$	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
DRO	23.7	$\mathrm{mg/L}$	1	25.0	<1.09	95	73 - 119	4	20
Percent recovery is based on t	he spike result.	RPD is b	ased on	the spike a	nd spike du	plicate i	esult.		

	MS	MSD			Spike	MS	MSD	Rec .
$\mathbf{Surrogate}$	Result	Result	Units	Dil.	${f Amount}$	$\mathrm{Rec.}$	$\mathrm{Rec}.$	Limit
n-Triacontane	9.54	9.07	mg/L	1	10	95	91	67.2 - 146

Matrix Spike (MS-1) Spiked Sample: 156918

QC Batch: 47606 Date Analyzed: 2008-04-18 Prep Batch: 40933 QC Preparation: 2008-04-18

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	$_{ m Limit}$
DRO	24.0	$_{ m mg/L}$	1	25.0	<1.09	96	73 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${f Amount}$	Result	Rec .	Limit	RPD	Limit
DRO	29.3	mg/L	1	25.0	< 1.09	117	73 - 119	20	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	$\mathrm{Rec}.$
$\mathbf{Surrogate}$	Result	Result	Units	Dil.	${ m Amount}$	$\mathrm{Rec.}$	$\mathrm{Rec}.$	Limit
n-Triacontane	12.0	7.65	$_{ m mg/L}$	1	10	120	76	57.2 - 149

Matrix Spike (MS-1) Spiked Sample: 157486

QC Batch: 47668 Date Analyzed: 2008-04-21 Analyzed By: RM Prep Batch: 40986 QC Preparation: 2008-04-21 Prepared By: RM

	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${f Amount}$	Result	$\mathrm{Rec}.$	Limit
DRO	23.2	$\mathrm{mg/L}$	1	25.0	< 1.09	93	73 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec .	Limit	RPD	Limit
DRO	23.9	$\mathrm{mg/L}$	1	25.0	<1.09	96	73 - 119	3	20

Work Order: 8033103 HELSTF GROUNDWATER

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	MS	MSD			Spike	MS	MSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${f Amount}$	$\mathrm{Rec.}$	$\mathrm{Rec}.$	Limit
n-Triacontane	11.1	13.2	$_{ m mg/L}$	1	10	111	132	57.2 - 149

Matrix Spike (MS-1) Spiked Sample: 157765

QC Batch: 47790 Prep Batch: 41088 Date Analyzed: 2008-04-24 QC Preparation: 2008-04-24 Analyzed By: RM Prepared By: RM

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	MS			Spike	Matrix		$\mathrm{Rec}.$
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec.	Limit
DRO	62.2	m mg/L	1	25.0	<1.09	249	73 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			Spike	Matrix		$\mathrm{Rec}.$		RPD
Param	Result	Units	Dil.	${ m Amount}$	Result	Rec .	Limit	RPD	Limit
DRO	45.7	mg/L	1	25.0	< 1.09	183	73 - 119	31	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MS	MSD			Spike	MS	MSD	$\mathrm{Rec}.$
Surrogate	Result	Result	Units	Dil.	${f Amount}$	$\mathrm{Rec.}$	$\mathrm{Rec}.$	Limit
n-Triacontane	12.3	11.4	$_{ m mg/L}$	1	10	123	114	57.2 - 149

Standard (ICV-1)

QC Batch: 46977

Date Analyzed: 2008-03-31

Analyzed By: RM

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
DRO		m mg/L	250	229	92	85 - 115	2008-03-31

Standard (CCV-1)

QC Batch: 46977

Date Analyzed: 2008-03-31

Analyzed By: RM

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc .	$\operatorname{Conc.}$	Recovery	Limits	${ m Analyzed}$
DRO		m mg/L	250	244	98	85 - 115	2008-03-31

Standard (ICV-1)

QC Batch: 47203

Date Analyzed: 2008-04-07

Analyzed By: RM

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Report	Date:	may	21,	4
65				

			$rac{ ext{ICVs}}{ ext{True}}$	$\begin{array}{c} { m ICVs} \\ { m Found} \end{array}$	$egin{array}{l} ext{ICVs} \ ext{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	Conc .	$\operatorname{Recovery}$	Limits	${ m Analyzed}$
DRO		mg/L	250	236	94	85 - 115	2008-04-07

Standard (CCV-1)

QC Batch: 47203 Date Analyzed: 2008-04-07 Analyzed By: RM

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	${f Analyzed}$
DRO		m mg/L	250	282	113	85 - 115	2008-04-07

Standard (CCV-2)

QC Batch: 47203 Date Analyzed: 2008-04-07 Analyzed By: RM

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
DRO		$_{ m mg/L}$	250	255	102	85 - 115	2008-04-07

Standard (ICV-1)

QC Batch: 47314 Date Analyzed: 2008-04-09 Analyzed By: RM

			ICVs	ICVs	ICVs	$\operatorname{Percent}$	
			True	Found	$\operatorname{Percent}$	Recovery	Date
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${ m Analyzed}$
DRO		m mg/L	250	245	98	85 - 115	2008-04-09

Standard (CCV-1)

QC Batch: 47314 Date Analyzed: 2008-04-09 Analyzed By: RM

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	Limits	Analyzed
DRO		m mg/L	250	249	100	85 - 115	2008-04-09

Standard (ICV-1)

QC Batch: 47380 Date Analyzed: 2008-04-11 Analyzed By: RM

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Analyzed By: TG

rechore	Date.	TVI
65		

Standard (CCV-1)

QC Batch: 47606

			ICVs	ICVs	${ m ICVs}$	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc .	Conc .	$\operatorname{Recovery}$	Limits	Analyzed	
DRO		m mg/L	250	277	111	85 - 115	2008-04-11	
Standard	(CCV-1)							
QC Batch: 47380			Date An	alyzed: 2008-0	4-11	Anal	yzed By: RM	
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	$\operatorname{Conc.}$	$\operatorname{Conc.}$	Recovery	$\operatorname{Limits}^{"}$	${f Analyzed}$	
DRO		mg/L	250	270	108	85 - 115	2008-04-11	
Standard	(ICV-1)							
QC Batch:	47460		Date An	alyzed: 2008-0	Anal	yzed By: RM		
			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc .	Conc .	$\operatorname{Recovery}$	Limits	Analyzed	
DRO		m mg/L	250	254	102	85 - 115	2008-04-14	
Standard	(CCV-1)							
QC Batch:	47460		Date An	alyzed: 2008-0	4-14	Analyzed By: RM		
			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	Analyzed	
DRO		m mg/L	250	247	99	85 - 115	2008-04-14	
G: 1 1	(10114)							
Standard	(ICV-I)							
QC Batch:	47606		Date Ar	nalyzed: 2008-0	04-18	Anal	yzed By: TG	
			ICVs	ICVs	ICVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc .	Recovery	Limits	Analyzed	
DRO		m mg/L	250	227	91	85 - 115	2008-04-18	

Date Analyzed: 2008-04-18

DRO

mg/L

250

Work Order: 8033103 HELSTF GROUNDWATER Page Number: 24 of 24

			CCVs	CCVs	CCVs	Percent		
			True	Found	Percent	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		$_{ m mg/L}$	250	223	89	85 - 115	2008-04-18	
		<u> </u>						
Standard	(ICV-1)							
QC Batch: 47668			Date An	alyzed: 2008-0	04-21	Analyzed By: RM		
			ICVs	ICVs	ICVs	Percent		
			True	Found	$\operatorname{Percent}$	Recovery	Date	
Param	Flag	Units	Conc.	Conc .	Recovery	Limits	Analyzed	
DRO		$\mathrm{mg/L}$	250	284	114	85 - 115	2008-04-21	
Standard	(CCV-1)							
QC Batch: 47668			Date An	Date Analyzed: 2008-04-21			yzed By: RM	
QC Daten.	41000		Date III	anyzea. 2000 e	71 21	Tilles	yzed By. 1tm	
			CCVs	CCVs	CCVs	Percent		
			True	\mathbf{Found}	$\operatorname{Percent}$	Recovery	Date	
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed	
DRO		mg/L	250	252	101	85 - 115	2008-04-21	
Standard	(ICV-1)							
QC Batch:	47790		Date An	alyzed: 2008-0	04-24	Analyzed By: RM		
			ICVs	ICVs	ICVs	Percent		
			True	Found	$\operatorname{Percent}$	Recovery	Date	
Param	Flag	Units	Conc.	Conc .	Recovery	Limits	${\bf Analyzed}$	
DRO		$\mathrm{mg/L}$	250	262	105	85 - 115	2008-04-24	
C. 1 1	(001/1)							
Standard	(CCV-1)							
QC Batch:	47790		Date An	alyzed: 2008-0	04-24	Anal	yzed By: RM	
			CCVs	CCVs	CCVs	Percent		
			True	\mathbf{Found}	$\operatorname{Percent}$	Recovery	Date	
Param	Flag	Units	Conc .	Conc .	Recovery	Limits	${\bf Analyzed}$	
DDO		/T	250	970	100	OF 11F	2002 04 24	

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85 - 115

2008-04-24